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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/812,338	03/29/2004	Mahendra Madhukar Patil	140320-1/YOD GERD:0106		
7590 11/21/2006			EXAM	INER	
Patrick S. Yoder			SUERETH, SARAH ELIZABETH		
FLETCHER YODER P.O. Box 692289			ART UNIT	PAPER NUMBER	
Houston, TX		3749			
			DATE MAILED: 11/21/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary		Application	on No.	Applicant(s)				
		10/812,33	8	PATIL ET AL.				
		Examiner		Art Unit				
		Sarah Sue		3749				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
WHIC - Exter after - If NO - Failu Any r	CRTENED STATUTORY PERIOD FO CHEVER IS LONGER, FROM THE MA Isions of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this commu- period for reply is specified above, the maximum statu- te to reply within the set or extended period for reply we eply received by the Office later than three months afted patent term adjustment. See 37 CFR 1.704(b).	ALING DATE OF TH f 37 CFR 1.136(a). In no even nication. utory period will apply and wi rill, by statute, cause the app	IIS COMMUNICAT ent, however, may a reply b If expire SIX (6) MONTHS to ication to become ABANDO	ION. e timely filed from the mailing date of this DNED (35 U.S.C. § 133).				
Status								
1)🖾	Responsive to communication(s) filed	l on <u>29 September 2</u>	<u>006</u> .					
	This action is FINAL . 2b)⊠ This action is non-final.							
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims				,			
4)🖂	Claim(s) 1-43 is/are pending in the ap	pplication.						
	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)	Claim(s) is/are allowed.							
6)⊠	Claim(s) <u>1-43</u> is/are rejected.							
7)	Claim(s) is/are objected to.							
8)[Claim(s) are subject to restricti	ion and/or election r	equirement.					
Applicati	on Papers			,				
9) The specification is objected to by the Examiner.								
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority u	ınder 35 U.S.C. § 119				•			
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No.								
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
		ाजा व गाउँ जा साह दहास	ned copies not rece	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
Attachmen	t(s)							
2) Notic 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PT nation Disclosure Statement(s) (PTO-1449 or P r No(s)/Mail Date	•	4) Interview Summ Paper No(s)/Ma 5) Notice of Inform 6) Other:		TO-152)			

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DETAILED ACTION

Response to Amendment

1. The affidavit filed on 9/29/06 under 37 CFR 1.131 is sufficient to overcome the Siegel reference.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 4. Claims 1-7, 14-20, 22-28 and 35-43 are rejected under 35 U.S.C. 103(a) as being unpatentable over Melink 6170480 in view of Bowen 4146016, further in view of Morton 6349716.

Melink discloses the claimed invention: a sensor (76,94,96,82,102) for detecting smoke and combustion products (col. 5, lines 66-67) above an active zone of a cooktop (18), an air moving device (50), control circuitry (70,72) coupled to the sensor and the air moving device, for regulating operation of the air moving device (col. 6, lines 27-31).

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Regarding claims 3,23, and 36, Melink discloses that the sensor (82) can be an IR temperature sensor (col. 4, lines 25-30).

Regarding claims 4, 18,26,27,39, and 40, Melink discloses a temperature sensor (76), and also a humidity sensor (col. 9, lines 4,5).

Regarding claims 5 and 20, the controller has several predefined programs activated by the user (col. 10, lines 48-51) via a user interface (134).

Regarding claim 6, the controller is configured to respond to the temperature and humidity sensors (col. 9, lines 1-3).

Regarding claims 7 and 19, the controller sends and receives signals (col. 10, lines 41-44), and is read as capable of receiving at least one of the claimed signals.

Regarding claims 22 and 28, Melink discloses that the controller is configurable by the user (col. 10, lines 57-60), which is read as meeting the claimed limitation "configurable based on installation location".

Regarding claim 35, the Melink apparatus has the claimed structure, and is disclosed as reducing acoustic noise by varying the fan speed (col. 3, lines 25-30).

Regarding claim 41, the controller uses set point references; an example being a maximum temperature beyond which fire control is activated (col. 10, lines 12-15).

Regarding claim 42, Melink discloses varying the volume ramp over time intervals (col. 3, lines 25-30).

Regarding the table of claim 43, Melink discloses that the controller stores a set of values for volume rates (col. 7, lines 40-45), which is regarded as the claimed look up table.

Melink does not discuss operating in either recirculation or exhaust mode utilizing an air flow direction device connected to the controller. Melink discloses operating in an exhaust mode only, utilizing supplemental air from outside to resupply the air inside the kitchen.

However, Melink discusses the difficulty of maintaining the interior temperature of the kitchen during the winter, as continuing to draw in cold outside air would cause the kitchen inside temperature to become uncomfortable (col. 9, lines 37-43).

Bowen solves this problem by providing an adjustable damper (76) movable between an exhaust (Fig. 2) and recirculation (Fig. 3) position.

Bowen teaches that providing a recirculation air path inside the hood allows for the heat to be conserved in the kitchen (col. 3, lines 63-68 and col. 4, lines 1-2).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the Melink apparatus by adding an adjustable damper as taught by Bowen in order to conserve heat in the kitchen (Bowen, col. 4, lines 1-2).

As discussed above, Bowen does not suggest that the damper is automatically controlled. The damper is disclosed to be manually movable between two positions (col. 4, lines 31-32).

Morton discloses: a ventilation system (10) including a sensor (60), an air moving device (33); an air flow direction control device (34) for directing the air between exhaust and recirculation pathways (col. 2, lines 36-40); and control circuitry (62) for

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regulating the position of the flow control device based upon signals from the sensor (col. 3, lines 47-49).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the Melink in view of Bowen apparatus by automating movement of the damper as taught by Morton in order to allow the damper to be automatically adjusted when triggered by a temperature sensor (col. 3, lines 50-53).

The method claims 14-20 and 35-43 are rejected because the prior art apparatus discussed above performs the claimed method steps.

5. Claims 8, 9, 11-13, 21, 29, 30, and 32-34 are rejected under 35 U.S.C. 103(a) as being unpatentable over Melink 6170480 in view of Bowen 4146016, further in view of Morton 6349716, as discussed above, and further in view of Wang et al 5236595.

As discussed above, the Melink in view of Morton combination does not include a grease filter.

Wang et al shows a filter (col. 6, lines 11-24) for the purpose of purifying air (col. 6, line 9). The filter is taught to remove grease (col. 6, line 8), odor (col. 6, line 9), and bacteria (col. 0, line 8). The air purification device also includes UV air purification (col. 6, lines 28, 29), which is read as an active device.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the Melink in view of Morton apparatus with the Wang air purification device, in order to remove undesirable constituents (col. 5, lines 16, 17).

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Claim 21 is rejected because the prior art apparatus discussed above performs the claimed method step.

6. Claims 10 and 31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Melink in view of Bowen, further in view of Morton and Wang as discussed above, and further in view of Jensen 6521859.

As discussed above, Wang et al discloses a UV air purification device, but not a corona discharge device.

Jensen teaches that both UV air purification devices and corona discharge devices work to irradiate air (col. 1, lines 66, 67).

The courts have held that substituting known equivalents for the same purpose is not a patentable modification (In re Fout, 675 F.2d 297, 213 USPQ 532 (CCPA 1982), also MPEP 2144.06).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the Melink/Bowen/Morton/Wang apparatus by substituting the Jensen corona discharge device for the UV air purification device, in order to produce high quantities of ozone at a low cost (Jensen col. 2, lines 11-15).

Claim 31 is rejected because the prior art apparatus discussed above performs the claimed method step.

Conclusion

7. The prior art made of record on the attached form PTO-892 and not relied upon is considered pertinent to applicant's disclosure. Any inquiry concerning this

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communication or earlier communications from the examiner should be directed to Sarah Suereth whose telephone number is (571) 272-9061. The examiner can normally be reached on Monday to Thursday 7:00AM-4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Josiah Cocks can be reached on (571) 272-4874. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Sarah Suereth

Examiner

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JOSIAH C. COCKS PRIMARY EXAMINER